

TABLE 1

READ/WRITE SAMPLES

	FILM STRUCTURE		CORECIVITY	
	UNDERLAYER	SUPERLATTICE RECORDING LAYER	25°C	70°C
SAMPLE A	PdAg (15 nm)	[Co (0.3 nm)/Pd(1.0 nm)]×15	555 kA/m	365 kA/m
SAMPLE B	PdAg (15 nm)	[Co (0.3 nm)/Pd(0.7 nm)]×20	535 kA/m	485 kA/m

TABLE 2DEPENDENCE OF H_c DECREASING RATE ON
UNDERLAYER MATERLAYER MATERIALS AND STRUCTURES

NUMBER	UNDERLAYER (THE ORDER OF LAMINATION FROM THE LEFT)	H_c DECREASING RATE (25°C → 70°C)	MAGNETIZATION TORQUE LOOP	
			TRANSLATIONAL SYMMETRY OF 90 DEGREE L_2	TRANSLATIONAL SYMMETRY OF 180 DEGREE L_4
1	Ru (20 nm)	8%	-258 kJ/m ³	13 kJ/m ³
2	PdAg (15 nm)	7.5%	-280 kJ/m ³	16 kJ/m ³
3	MgO (1 nm)/Pd (1 nm) /Ru (3 nm)	16%	-217 kJ/m ³	-24 kJ/m ³
4	Pd (1 nm)/MgO (1 nm)/ Pd (1 nm)/Ru (3 nm)	7%	-276 kJ/m ³	21 kJ/m ³
5	Pd (5 nm)-FILM FORMING IN OXYGEN	21%	-200 kJ/m ³	-34 kJ/m ³

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FIG. 1

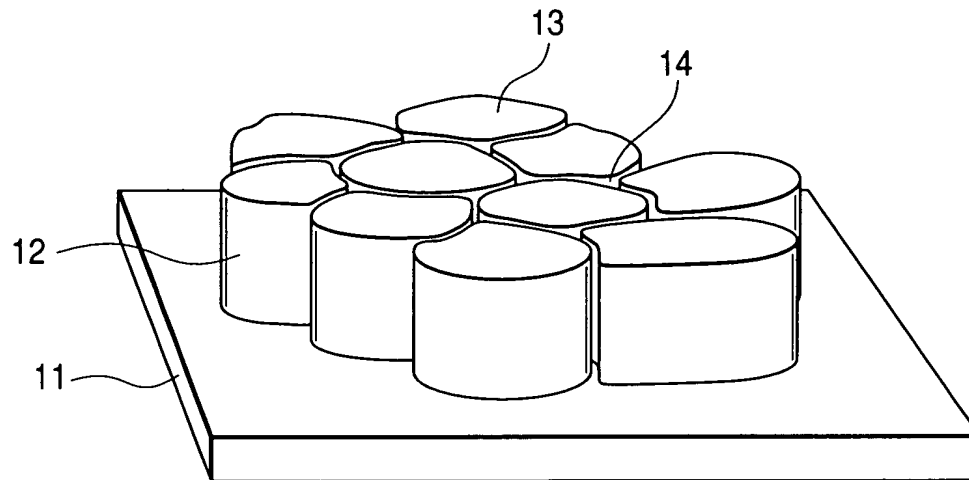
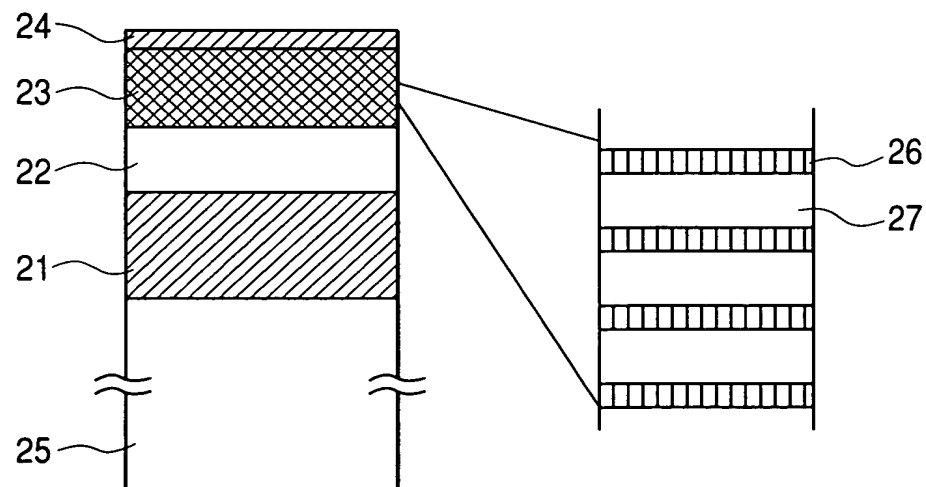
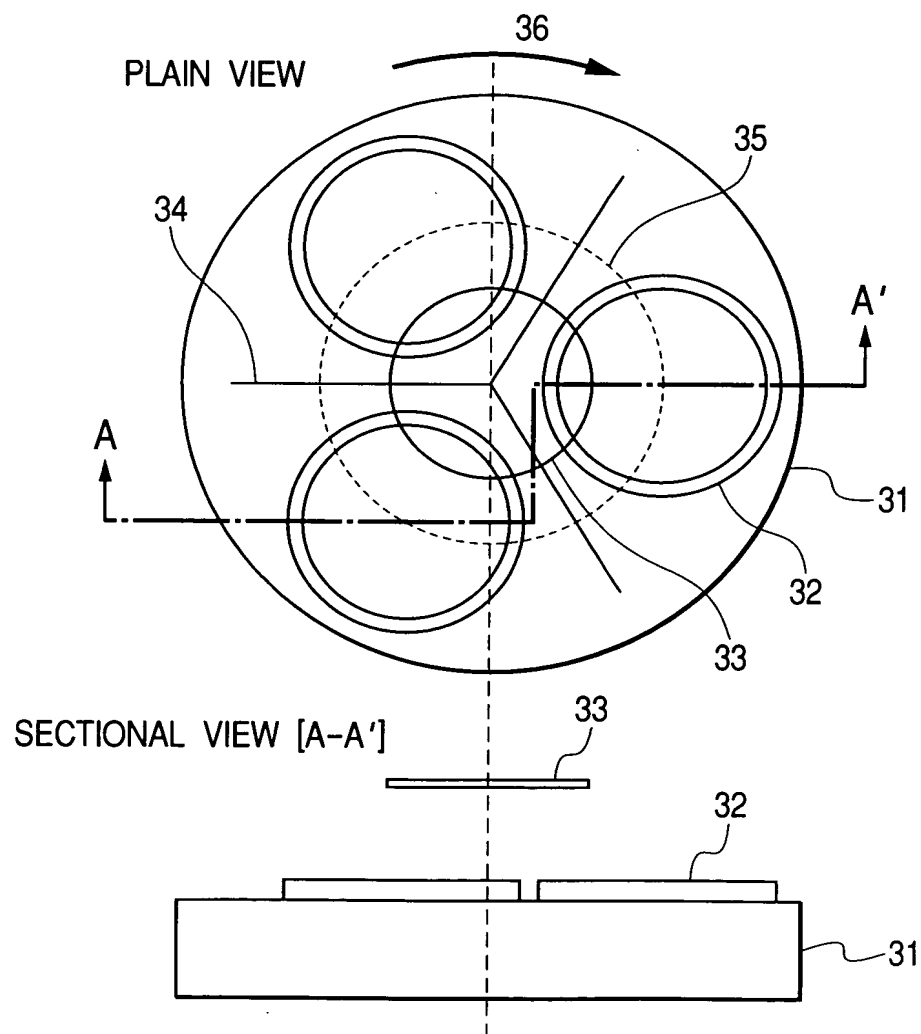


FIG. 2



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FIG. 3



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FIG. 4

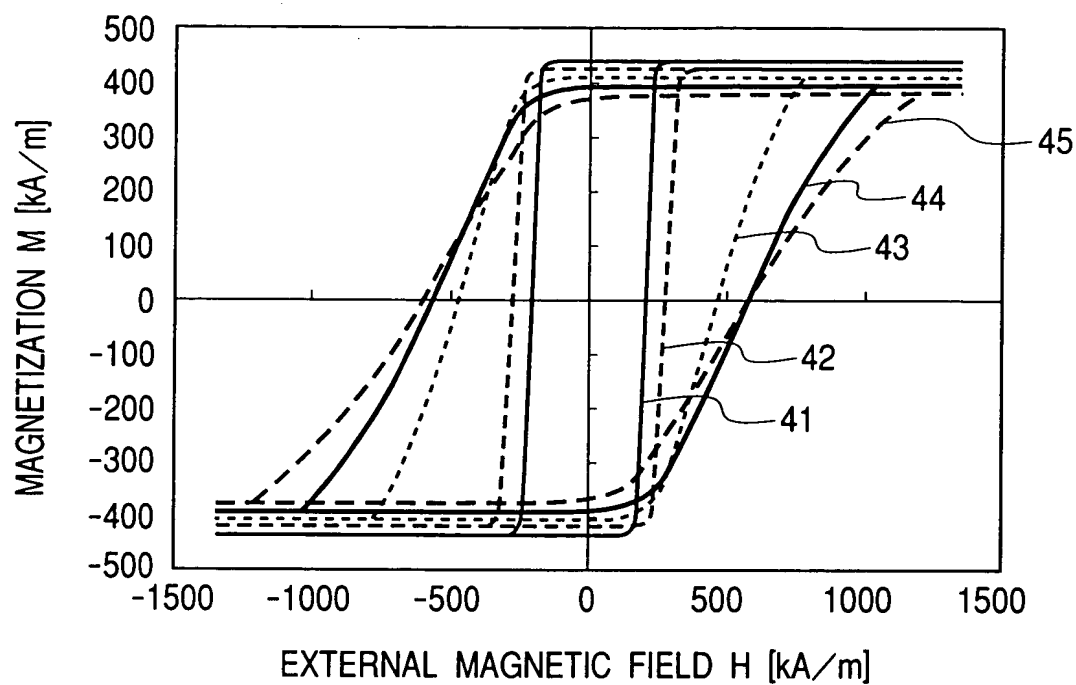
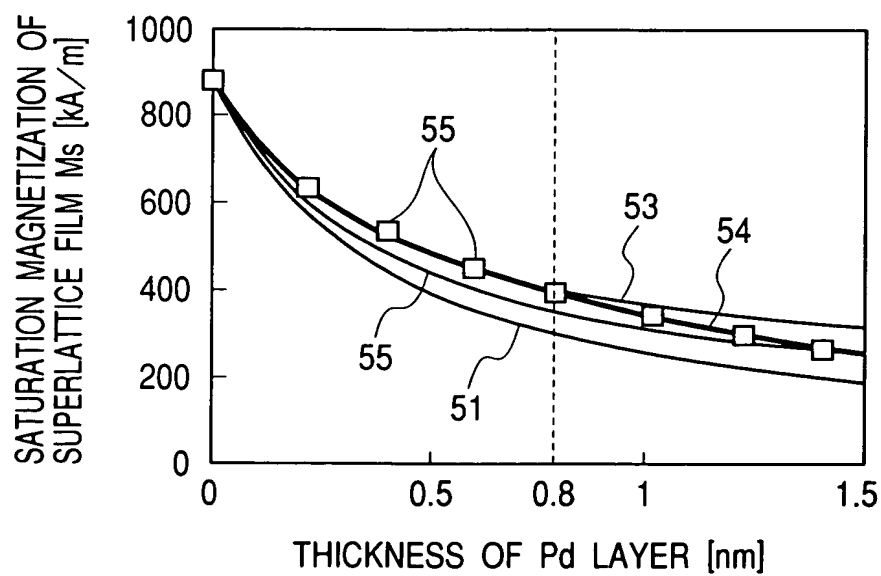
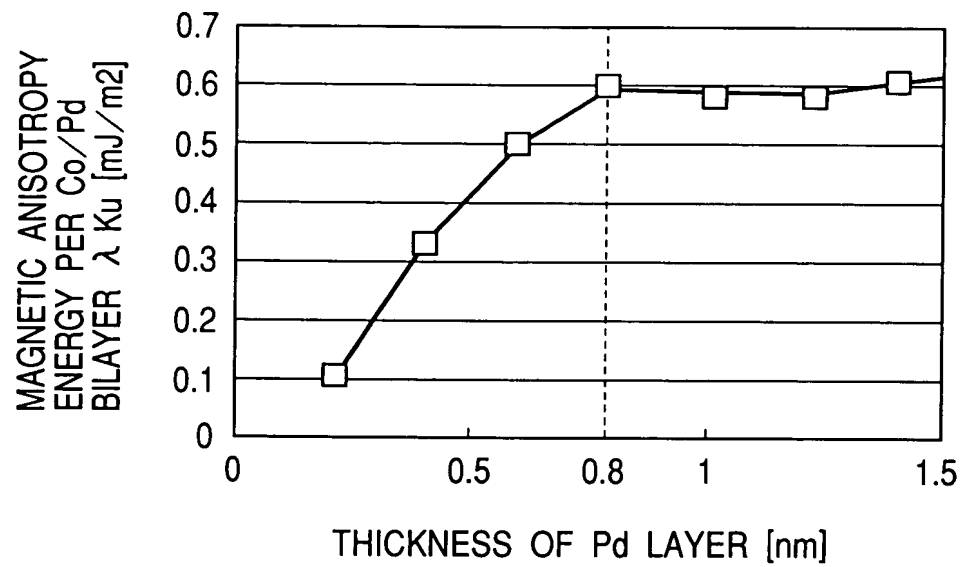
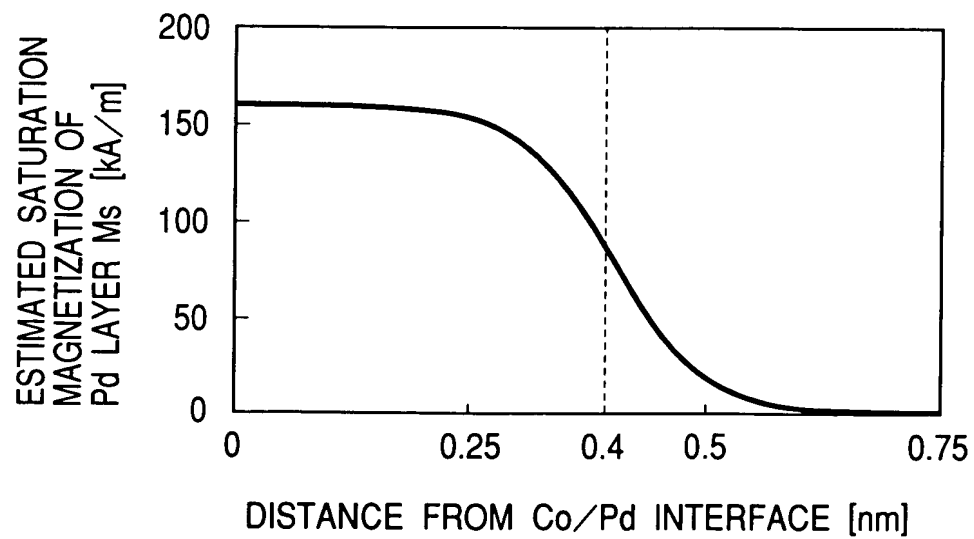


FIG. 5

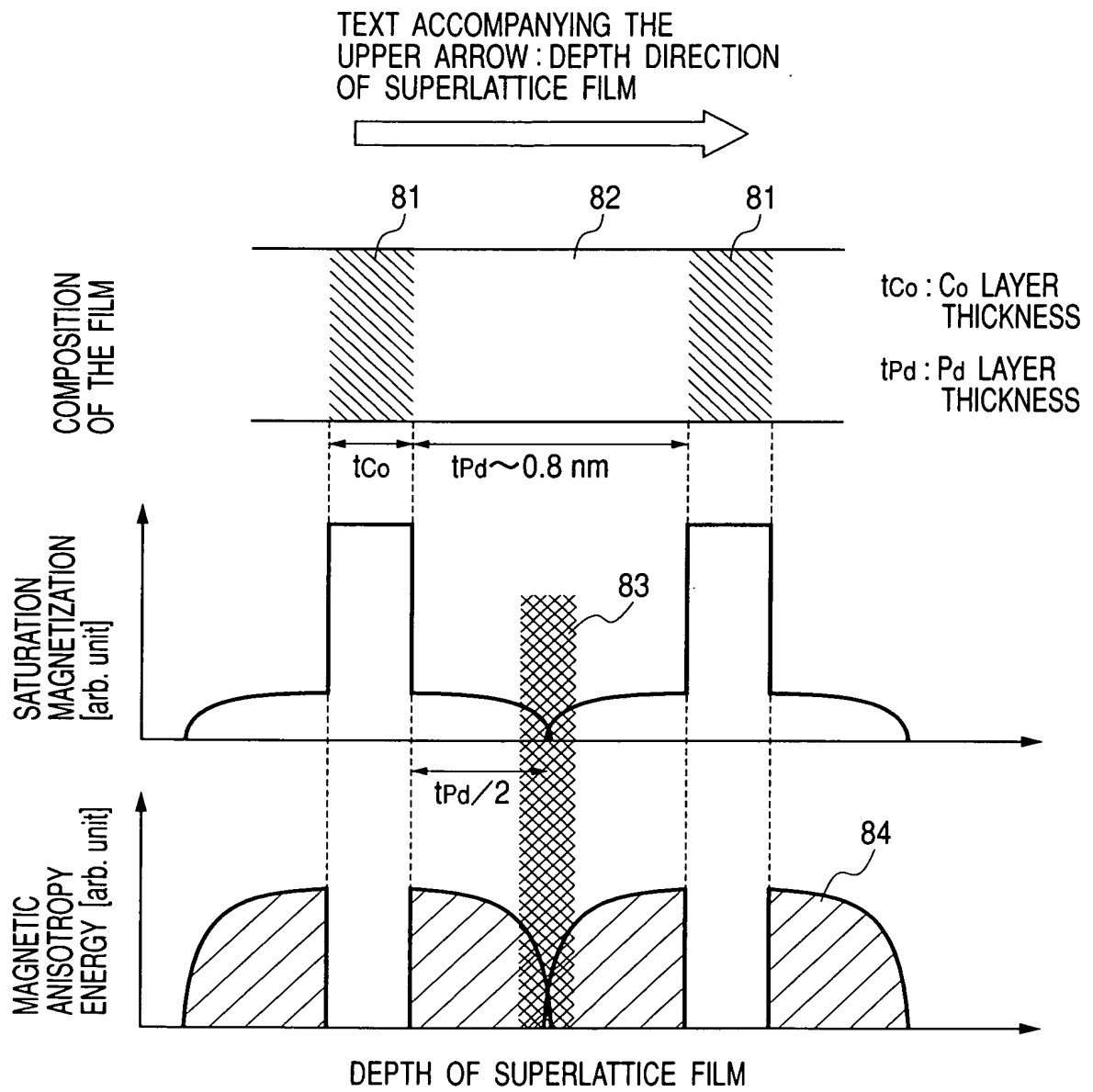


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FIG. 6*FIG. 7*

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FIG. 8



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FIG. 9

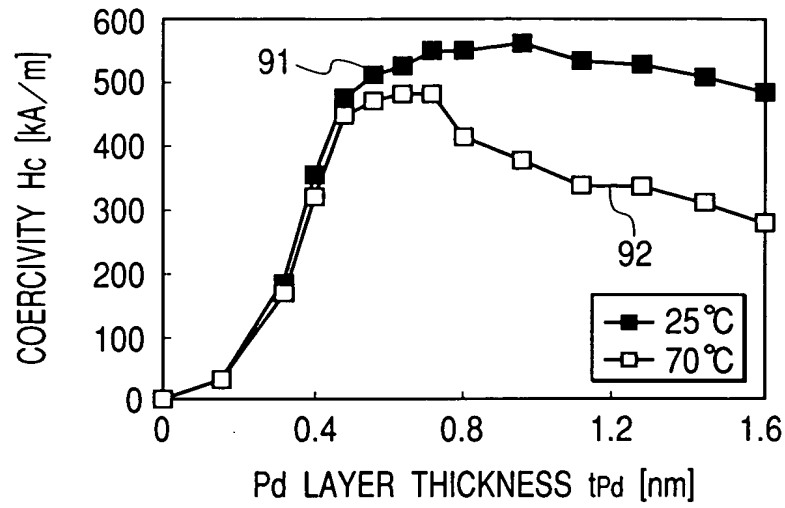
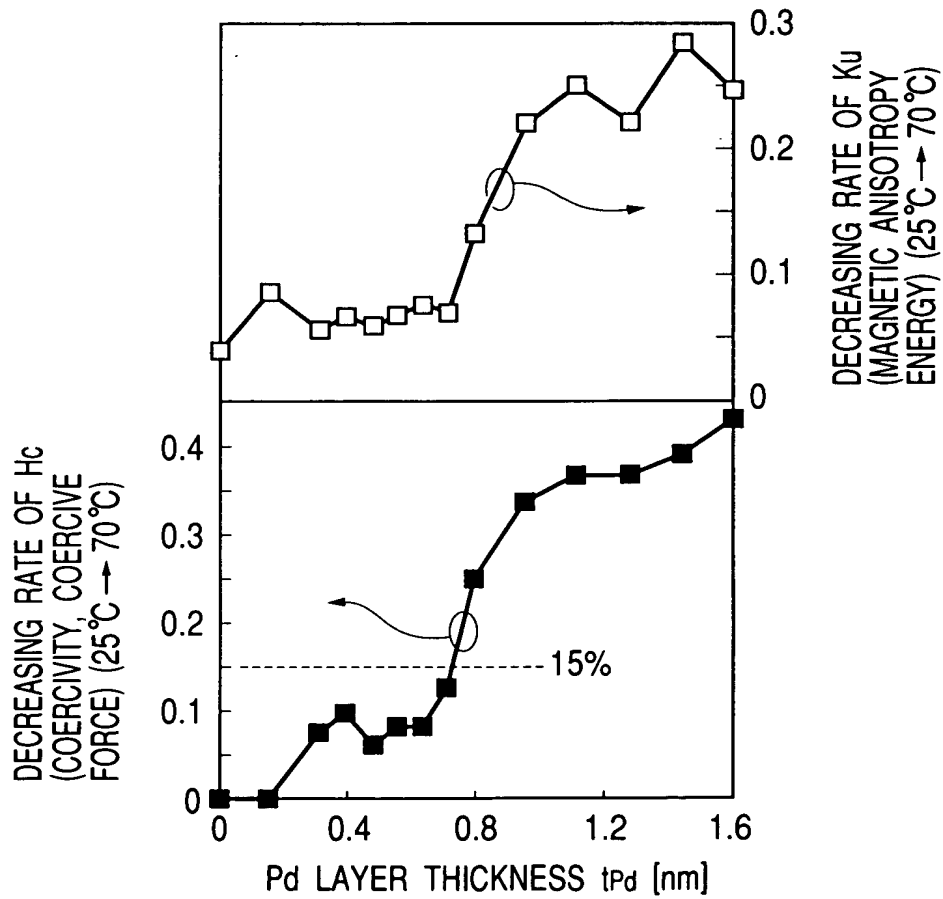


FIG. 10



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FIG. 11

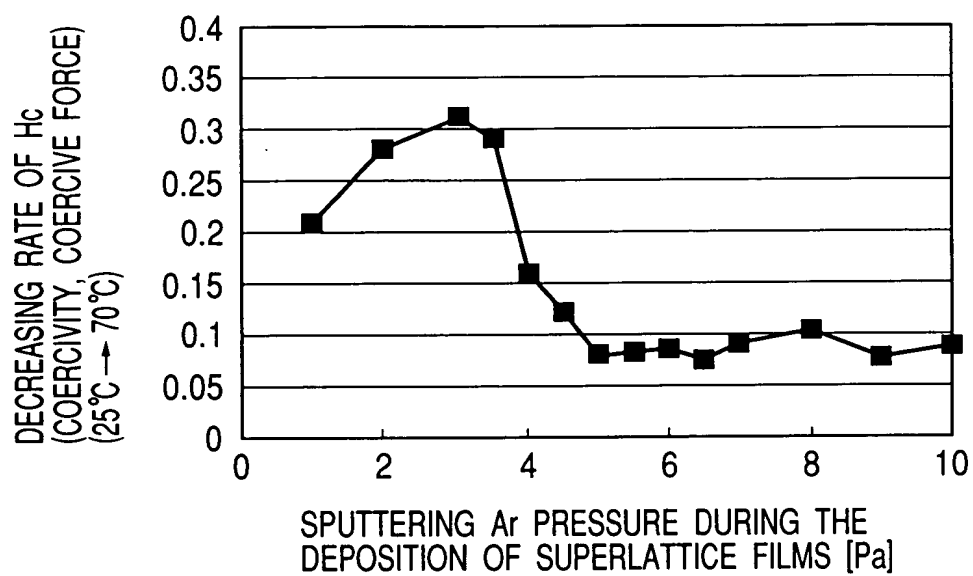
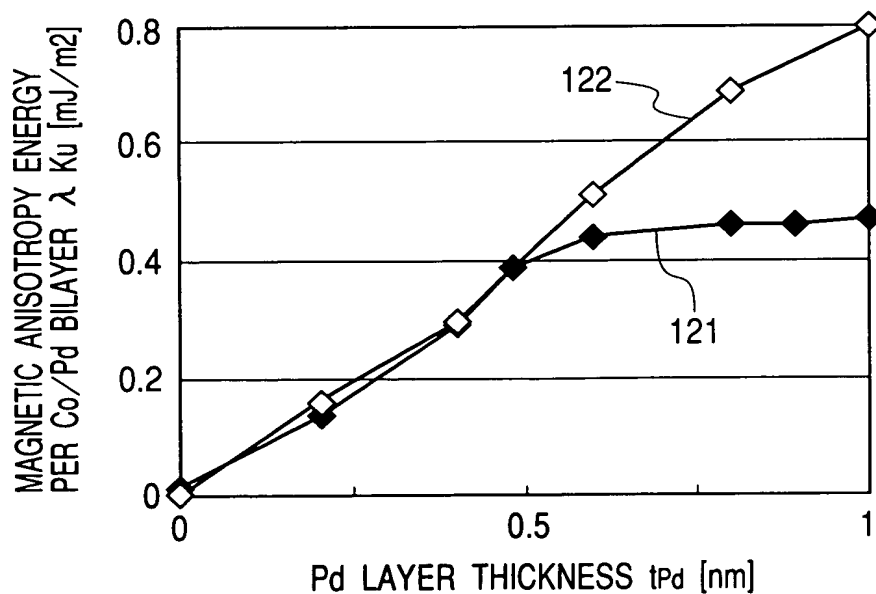
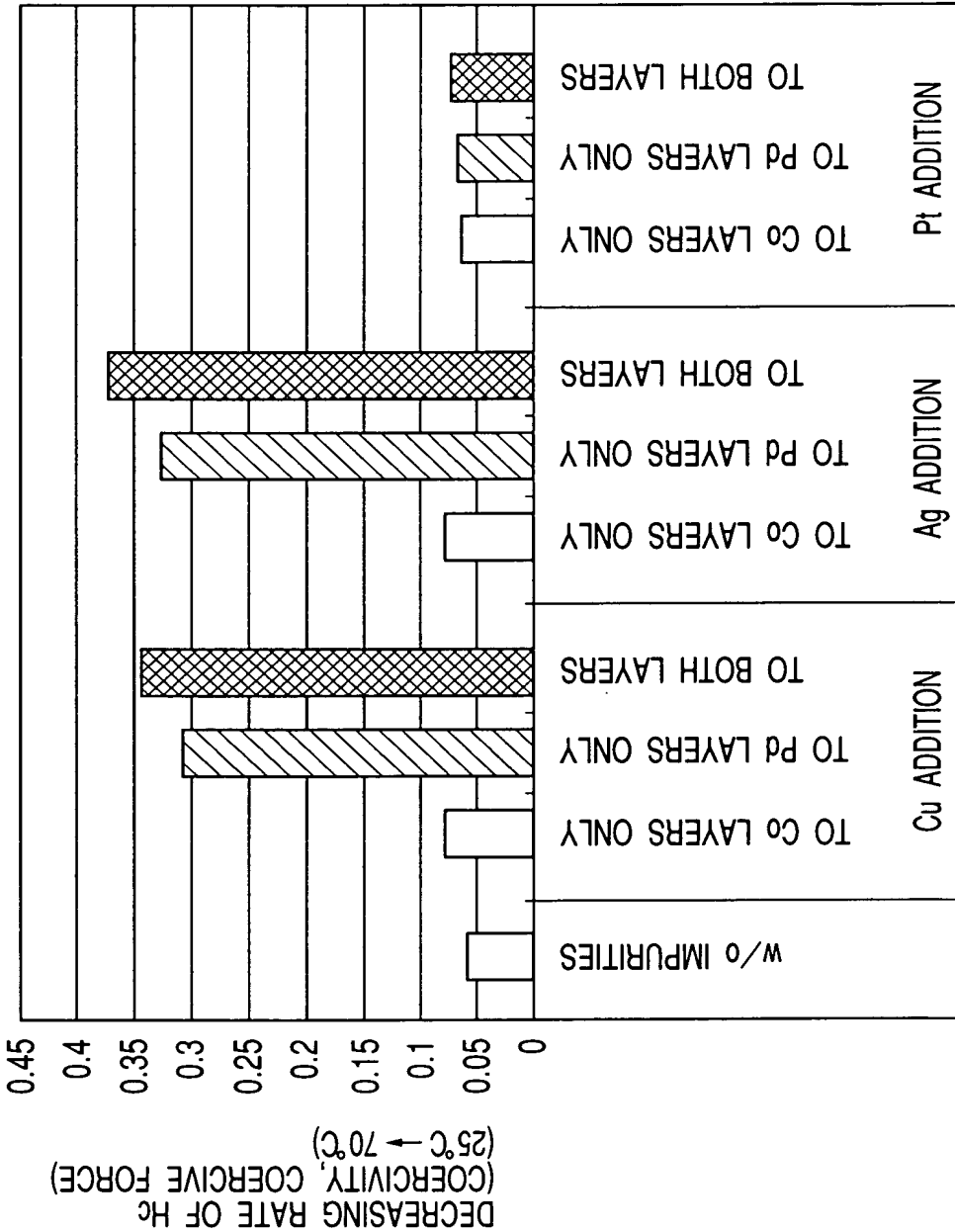


FIG. 12



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FIG. 13



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FIG. 14

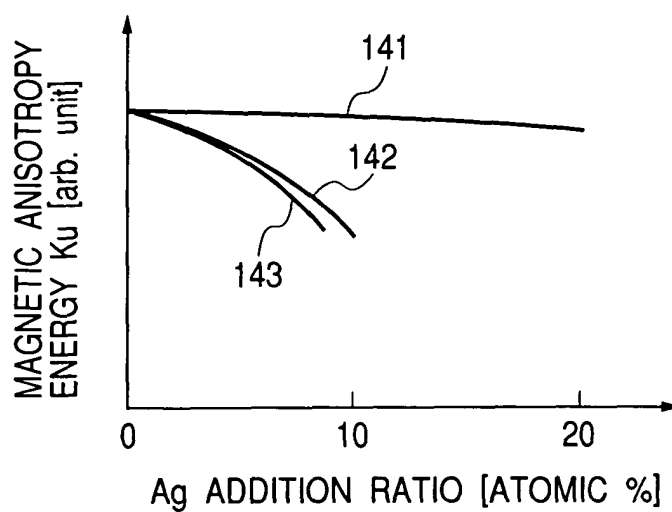


FIG. 15A

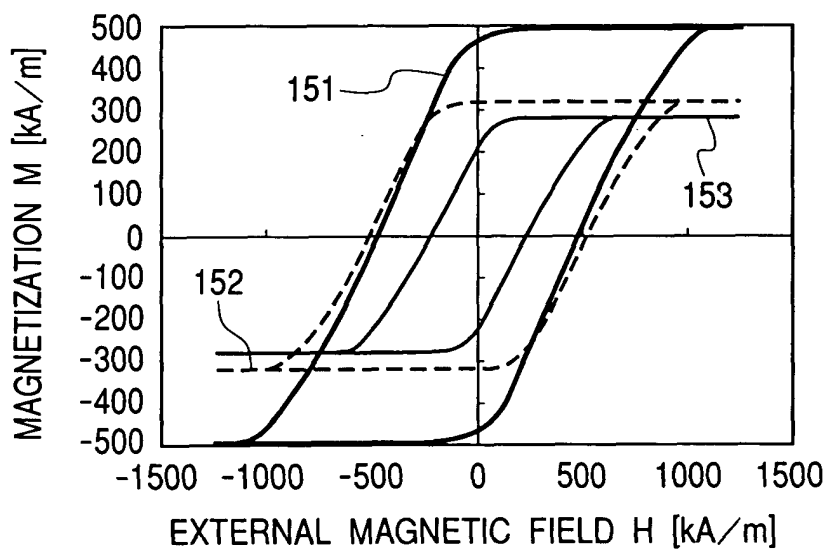
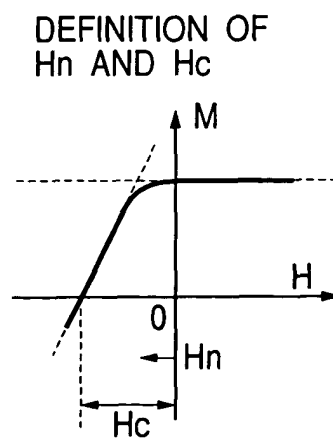


FIG. 15B



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FIG. 16

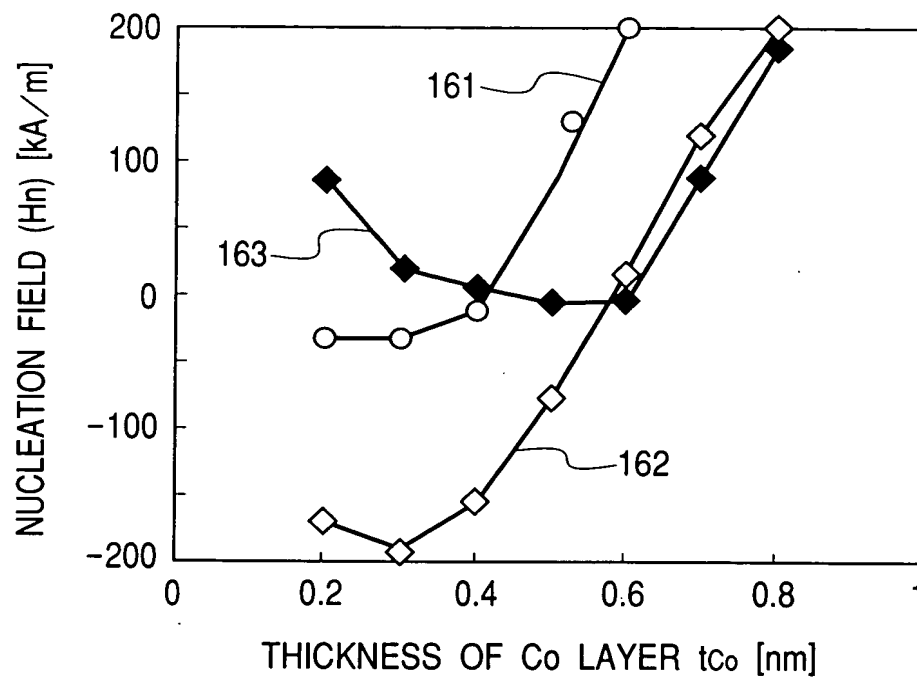
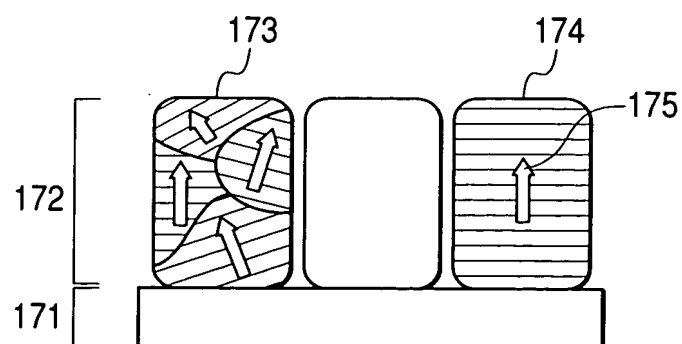
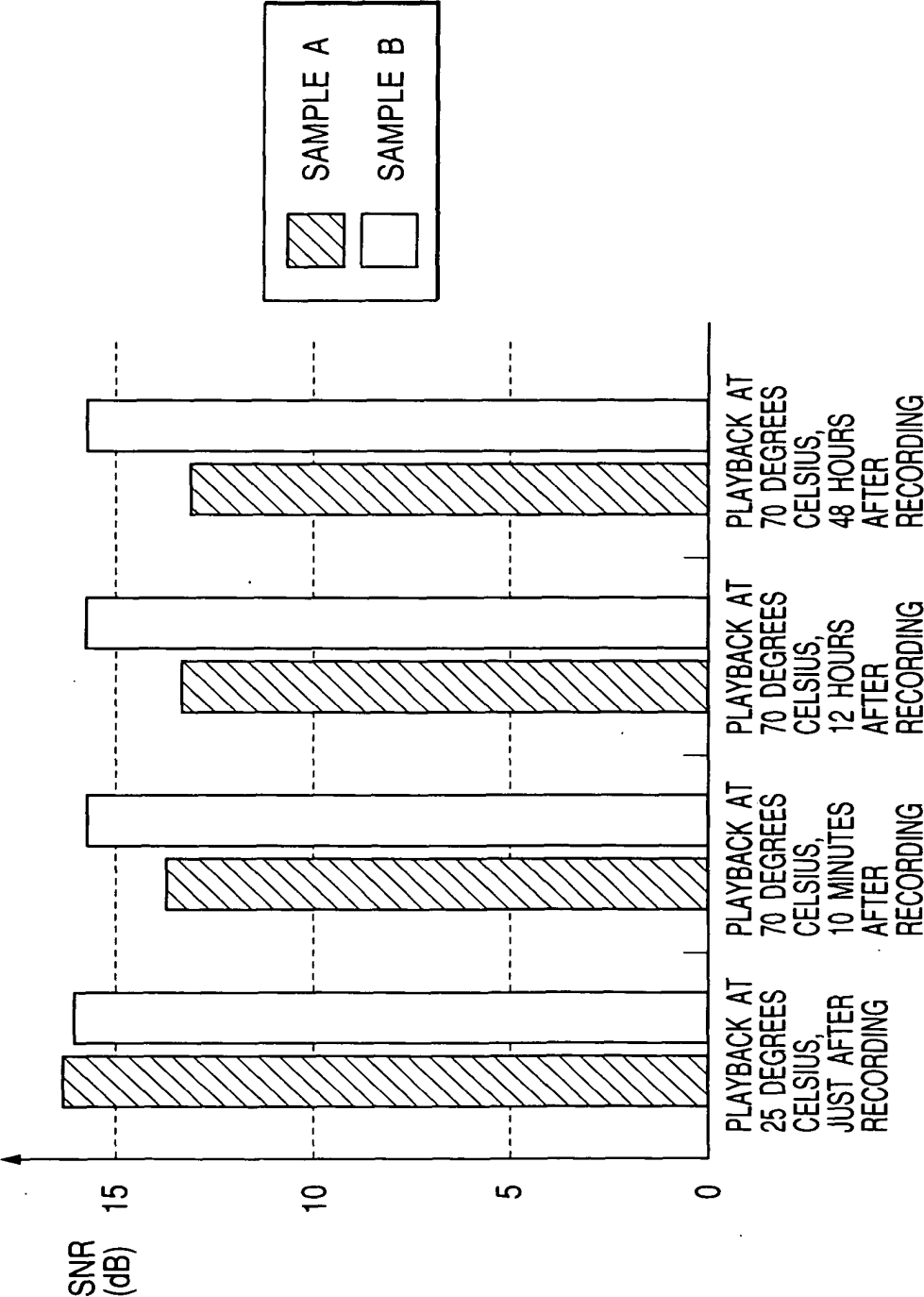


FIG. 17



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FIG. 18



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FIG. 19

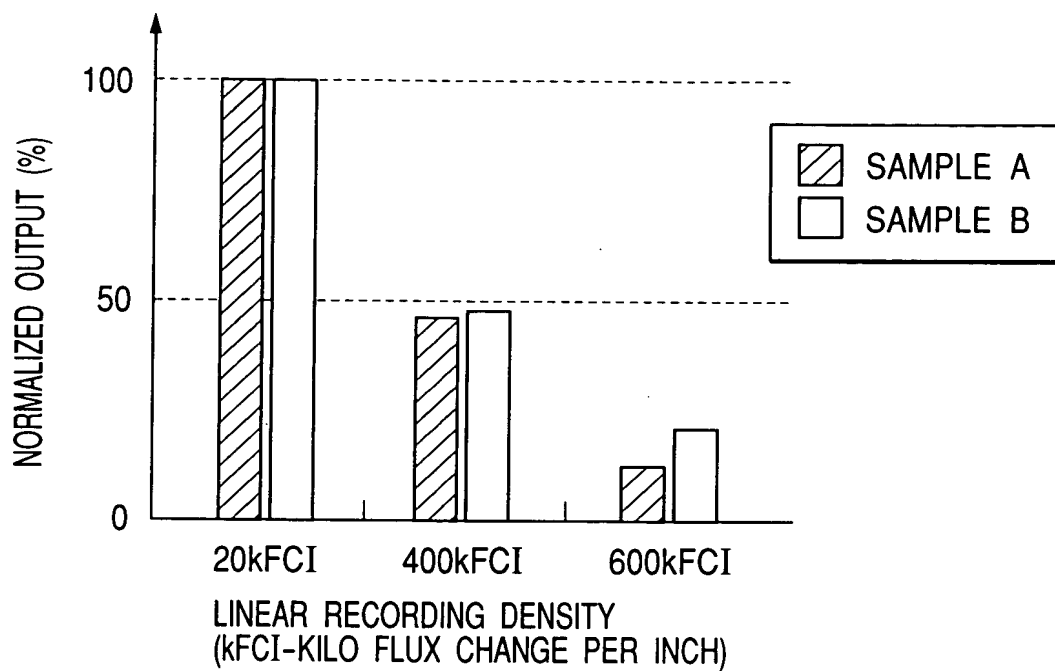


FIG. 20

